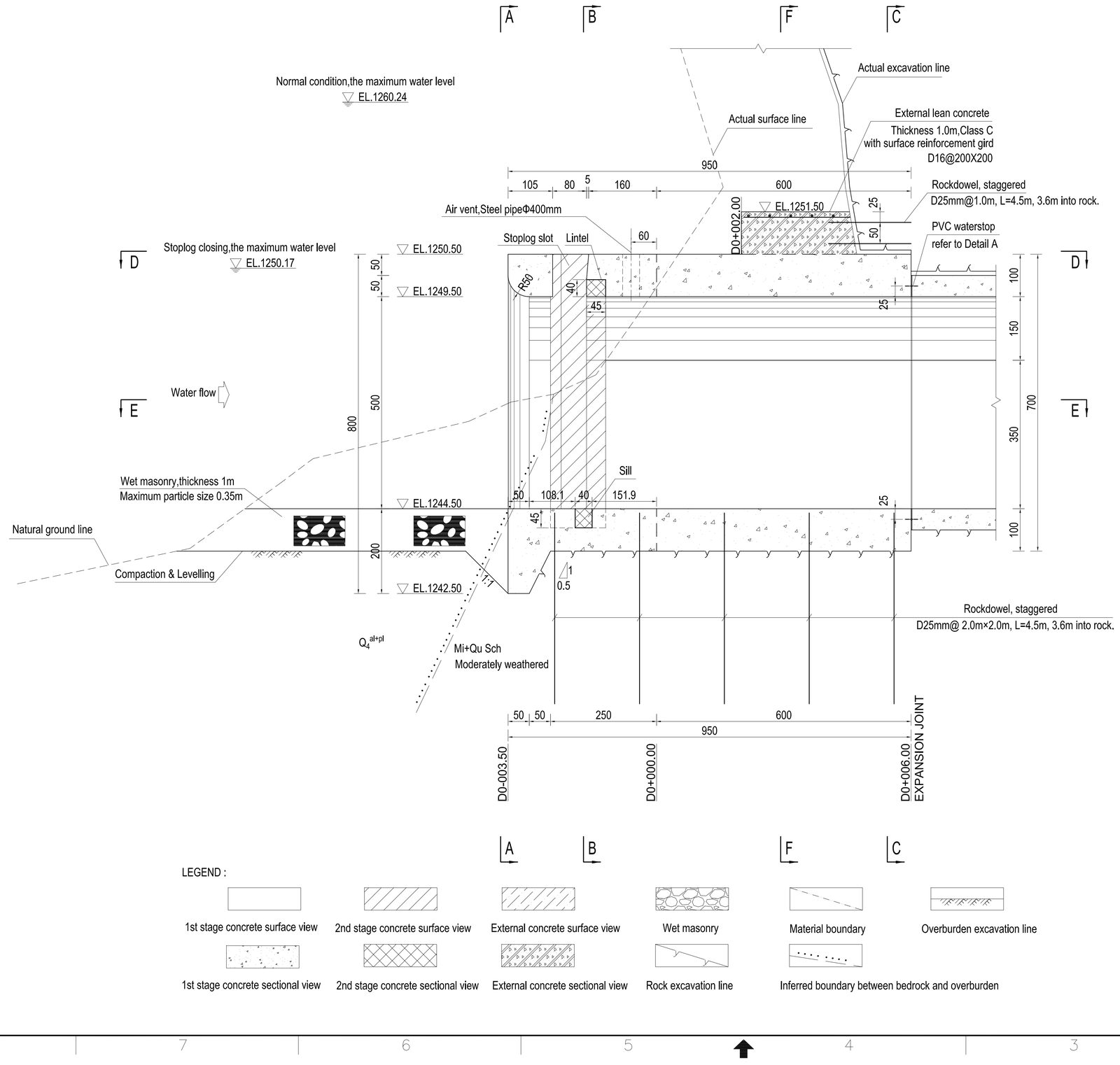
PROFILE OF INLET STRUCTURE

scale 1:50

Rev.0C



LEGEND :

1st stage concrete surface view	2nd stage concrete surface view	External concrete surface view	Wet masonry	Material boundary	Overburden excavation line
1st stage concrete sectional view	2nd stage concrete sectional view	External concrete sectional view	Rock excavation line	Inferred boundary between bedrock and overburden	

1:50 0 0.5 1 1.5 2 2.5m

NOTE

1. The coordinates, chainages & elevations are measured in meters, all dimensions are in centimeters unless otherwise stated.
2. Symbol description:
   A-Line is the design excavation line.
   B-Line is the overbreak line.
   D denotes deformed bar, yield strength of the deformed bar is 500MPa.
3. The 1st stage concrete grade is class E: cylinder specified compressive strength is 24MPa at 28days.
   The 2nd stage concrete grade is class F: cylinder specified compressive strength is 35MPa at 28days.
   The external concrete grade is class C: cylinder specified compressive strength is 12MPa at 28days.
4. The embedded parts in the drawings is just for sketched only, the actual size and location please refer to the relative mechanical drawings.
5. When the position of the joint bars and the embedded parts interfere with each other, the position of the joint bars can be adjusted appropriately.
6. Piror to 2nd stage concrete placing, surface of 1st stage concrete should be roughed.

REFERENCE DRAWINGS

UT1-C-010-CVL-DG-42001	Arrangement Drawing of Diversion Tunnel
UT1-H-010-MEC-DG-01004	Diversion Tunnel Stoplog 1st Stage Embedded Parts
UT1-C-010-CVL-DG-42004	Reinforcement Dwg of Inlet Structure of Diversion Tunnel

SYMBOL AND LEGEND

For information

THIS DRAWING AND THE INFORMATION CONTAINED HEREIN ARE PRELIMINARY FOR APPROVAL.
IT CAN BE CHANGED IN THE EXECUTION STAGE
THIS DRAWING IS THE PROPERTY OF DOOSAN HEAVY INDUSTRIES & CONSTRUCTION CO., LTD.
IT IS NOT TO BE COPIED OR USED IN ANY WAY DETRIMENTAL TO THE COMPANY.

REV. NO.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0C	31.MAR,2022	As RN-0094	Shao H.J.	Han Y.H.	Wang C.C. Luo L.
0B	9.MAR,2022	As RN-0060	Shao H.J.	Han Y.H.	Wang C.C. Luo L.
0A	10.FEB,2022	First issue	SHAO H.J.	HAN Y.H.	WANG C.C. LUO L.

PROJECT TITLE

Upper Trishuli-1 HEP (216MW)

OWNER

NWEDC NEPAL WATER AND ENERGY DEVELOPMENT CO. PVT.LTD.

OWNER'S ENGINEER

TRACTEBEL ENGIE jade CONSULT

CONTRACTOR

DOOSAN Doosan Heavy Industries & Construction

DRAWING TITLE

Diversion Facilities

Outline of Diversion Tunnel Intake Tower

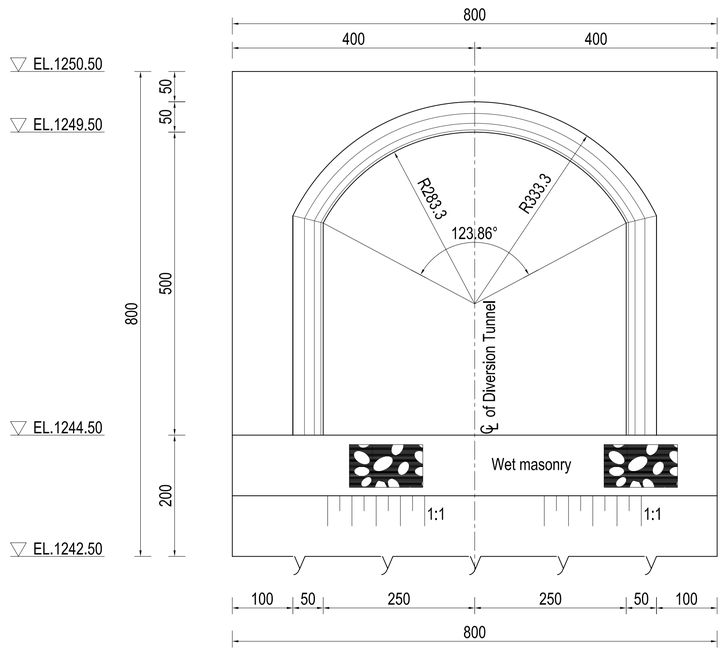
INDEX	DRAWING NUMBER	SHEET NO.	REV. NO.
A	UT1-C-010-CVL-DG-42008-1	1 OF 4	0C

A1 (594 x 841 MM)

FRONT VIEW A-A

scale 1:50

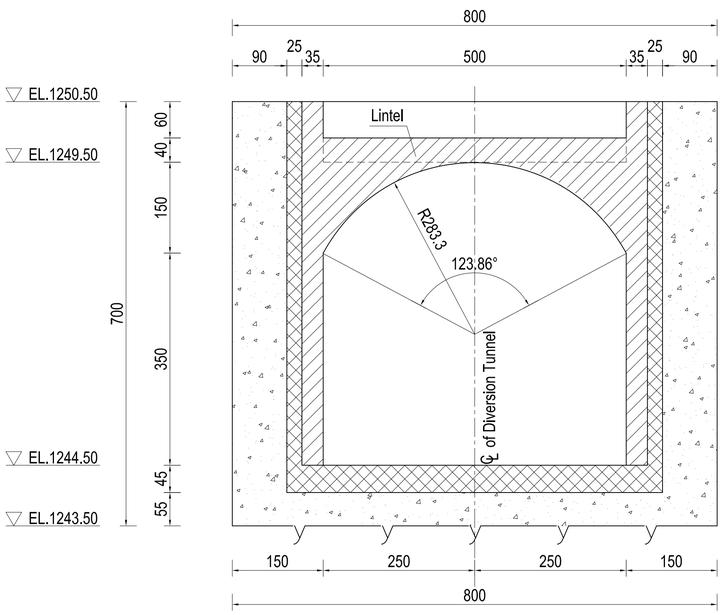
Rev.0C



SECTION B-B

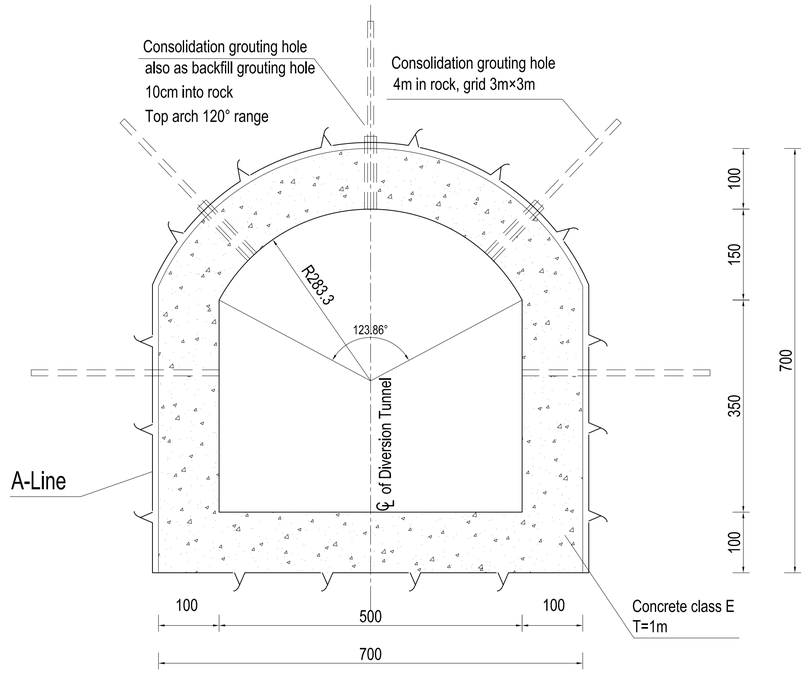
scale 1:50

Rev.0C



SECTION C-C

scale 1:50

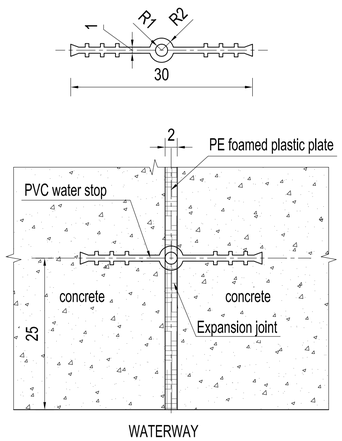


Note:

1. The initial backfill grouting pressure is 0.2~0.3MPa;
2. The initial consolidation grouting pressure is 0.3~0.5MPa.
3. Grouting pressure can be adjusted according to the actual situation on site.

DETAIL A(PVC WATERSTOP)

scale 1:5



1:50 0 0.5 1 1.5 2 2.5m

1:5 0 0.05 0.15 0.25m

NOTE

1. The coordinates, chainages & elevations are measured in meters, all dimensions are in centimeters unless otherwise stated.
2. The other notes please refer to 1/4.

REFERENCE DRAWINGS

UT1-C-010-CVL-DG-42001	Arrangement Drawing of Diversion Tunnel
UT1-H-010-MEC-DG-01004	Diversion Tunnel Stoplog 1st Stage Embedded Parts
UT1-C-010-CVL-DG-42004	Reinforcement Dwg of Inlet Structure of Diversion Tunnel

SYMBOL AND LEGEND

For information

THIS DRAWING AND THE INFORMATION CONTAINED HEREIN ARE PRELIMINARY FOR APPROVAL. IT CAN BE CHANGED IN THE EXECUTION STAGE.
THIS DRAWING IS THE PROPERTY OF DOOSAN HEAVY INDUSTRIES & CONSTRUCTION CO., LTD. IT IS NOT TO BE COPIED OR USED IN ANY WAY DETRIMENTAL TO THE COMPANY.

REV. NO.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0C	31.MAR.2022	As RN-0094	Shao H.J.	Han Y.H.	Wang C.G. Luo L.
0B	9.MAR.2022	As RN-0060	Shao H.J.	Han Y.H.	Wang C.G. Luo L.
0A	10.FEB.2022	First issue	SHAO H.J.	HAN Y.H.	WANG C.G. LUO L.

PROJECT TITLE

Upper Trishuli-1 HEP (216MW)

OWNER

NWEDC NEPAL WATER AND ENERGY DEVELOPMENT CO. PVT.LTD.

OWNER'S ENGINEER

TRACTEBEL ENGIE jade CONSULT

CONTRACTOR

DOOSAN Doosan Heavy Industries & Construction

DRAWING TITLE

Diversion Facilities

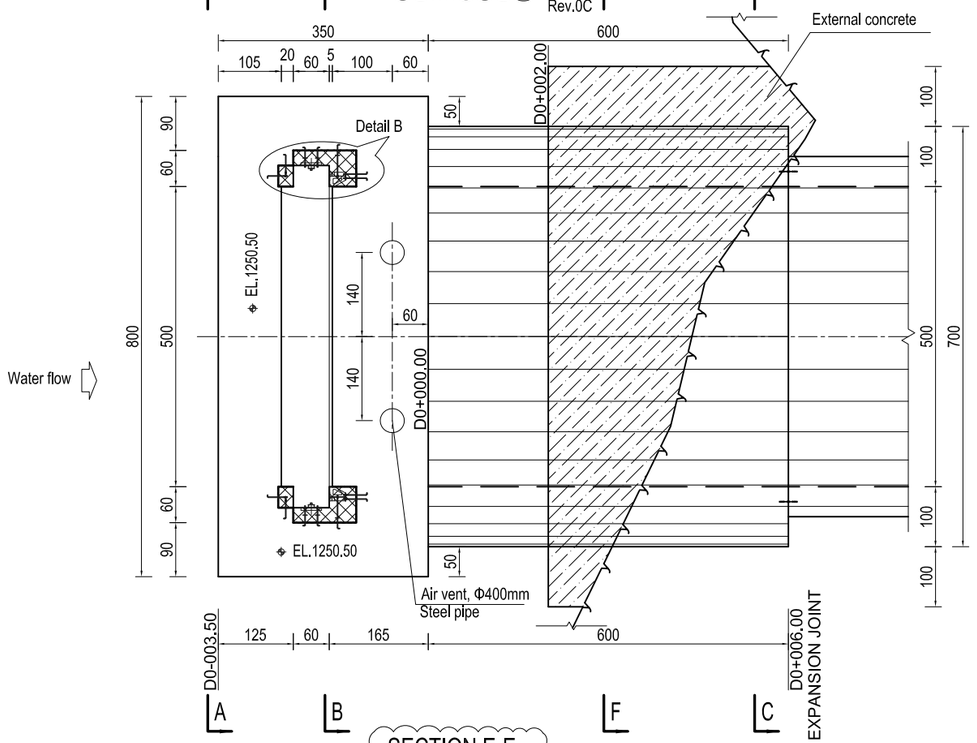
Outline of Diversion Tunnel Intake Tower

INDEX	DRAWING NUMBER	SHEET NO.	REV. NO.
A	UT1-C-010-CVL-DG-42008-2	2 OF 4	0C

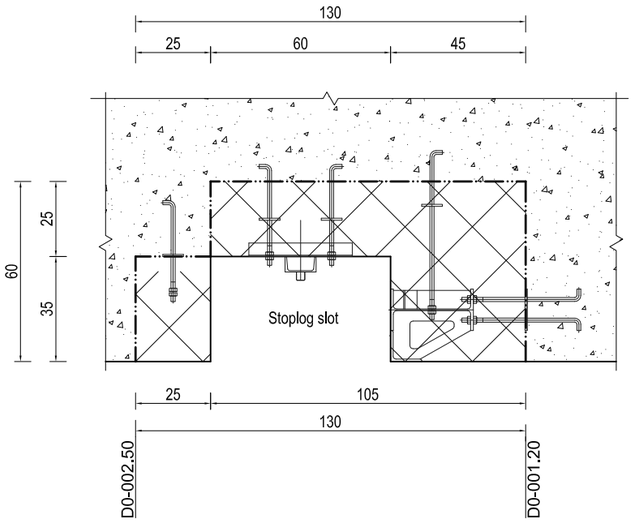
A1 (594 x 841 MM)

TOP VIEW D-D
scale 1:50

Rev.0C

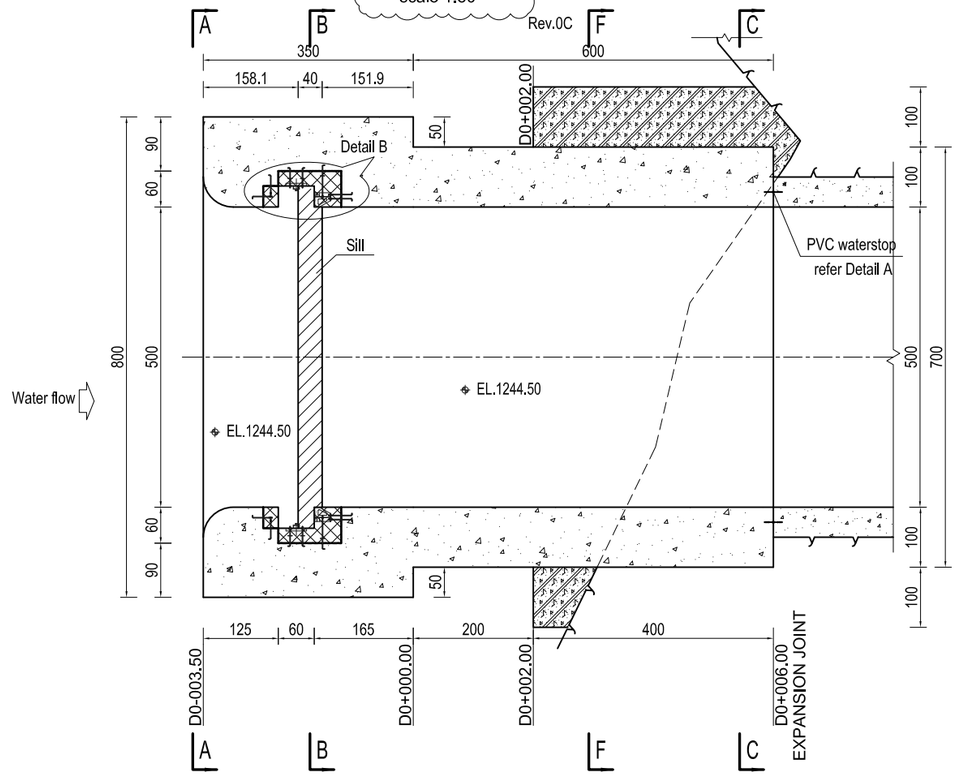


DETAIL B
scale 1:10



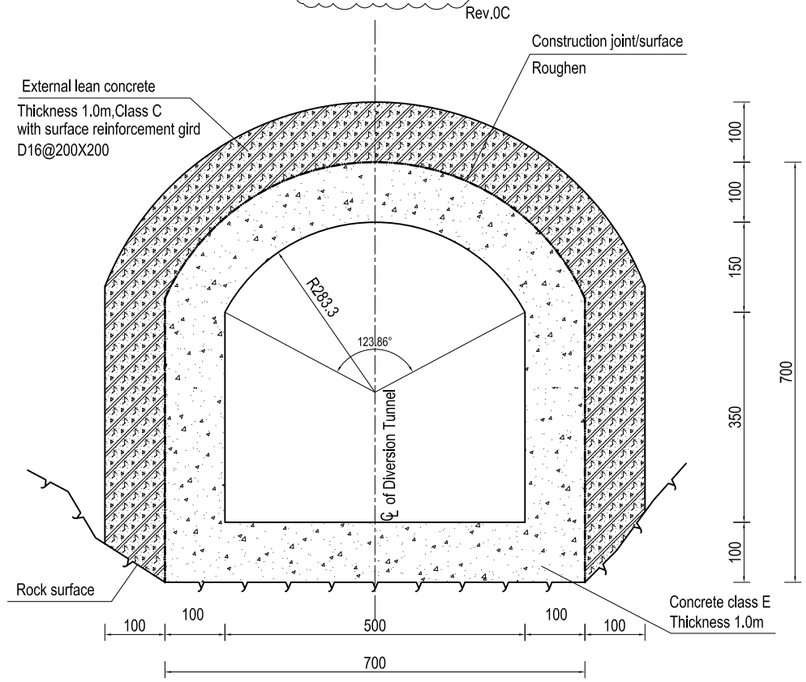
SECTION E-E
scale 1:50

Rev.0C



SECTION F-F
scale 1:50

Rev.0C



1:50 0 0.5 1 1.5 2 2.5m

1:10 0 0.1 0.3 0.5m

NOTE

1. The coordinates, chainages & elevations are measured in meters, all dimensions are in centimeters unless otherwise stated.
2. The other notes please refer to 1/4.

REFERENCE DRAWINGS

UT1-C-010-CVL-DG-42001	Arrangement Drawing of Diversion Tunnel
UT1-H-010-MEC-DG-01004	Diversion Tunnel Stoplog 1st Stage Embedded Parts
UT1-C-010-CVL-DG-42004	Reinforcement Dwg of Inlet Structure of Diversion Tunnel

SYMBOL AND LEGEND

For information

THIS DRAWING AND THE INFORMATION CONTAINED HEREIN ARE PRELIMINARY FOR APPROVAL.
IT CAN BE CHANGED IN THE EXECUTION STAGE
THIS DRAWING IS THE PROPERTY OF DOOSAN HEAVY INDUSTRIES & CONSTRUCTION CO., LTD.
IT IS NOT TO BE COPIED OR USED IN ANY WAY DETRIMENTAL TO THE COMPANY.

REV. NO.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0C	31.MAR,2022	As RN-0094	Shao H.J.	Han Y.H.	Wang C.G. Luo L.
0B	9.MAR,2022	As RN-0060	Shao H.J.	Han Y.H.	Wang C.G. Luo L.
0A	10.FEB,2022	First issue	SHAO H.J.	HAN Y.H.	WANG C.G. LUO L.

PROJECT TITLE

Upper Trishuli-1 HEP (216MW)

OWNER

NWEDC

OWNER'S ENGINEER

TRACTEBEL ENGIE JADE CONSULT

CONTRACTOR

DOOSAN Doosan Heavy Industries & Construction

DRAWING TITLE

Diversion Facilities

Outline of Diversion Tunnel Intake Tower

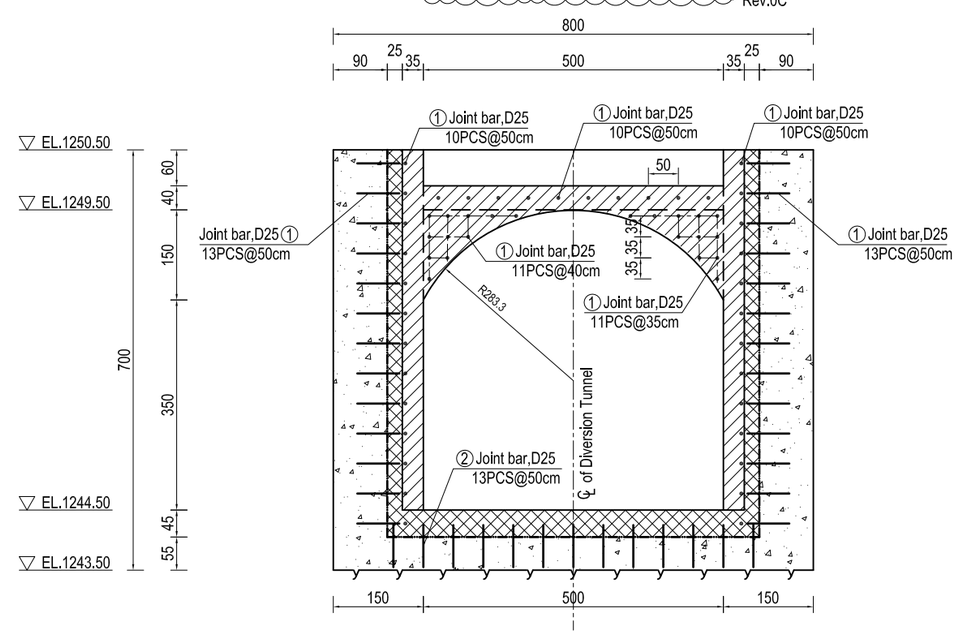
INDEX	DRAWING NUMBER	SHEET NO.	REV. NO.
A	UT1-C-010-CVL-DG-42008-3	3 OF 4	0C

A1 (594 x 841 MM)

JOINT BAR OF SECTION B-B

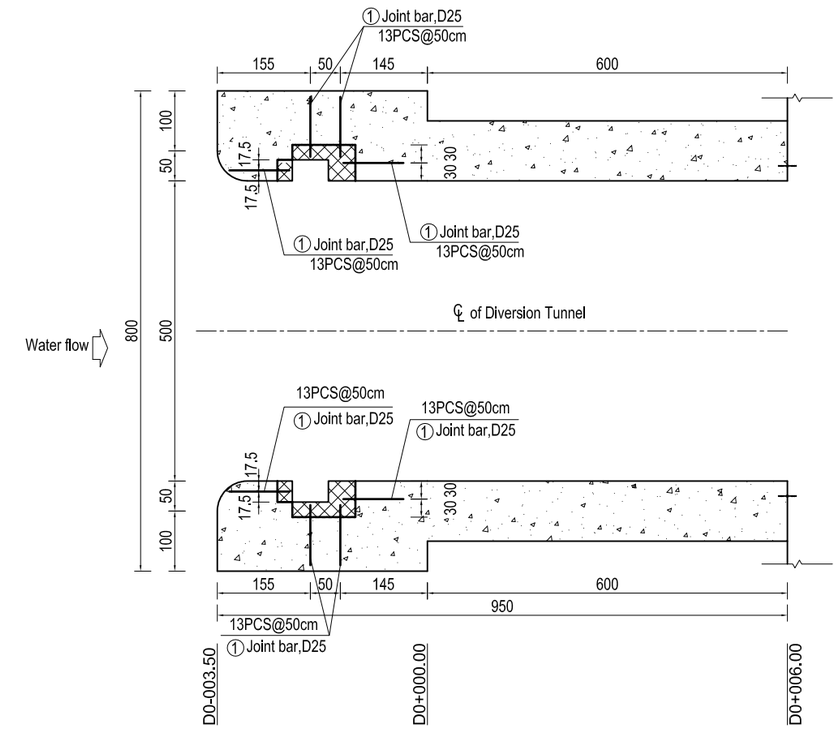
scale 1:50

Rev.0C



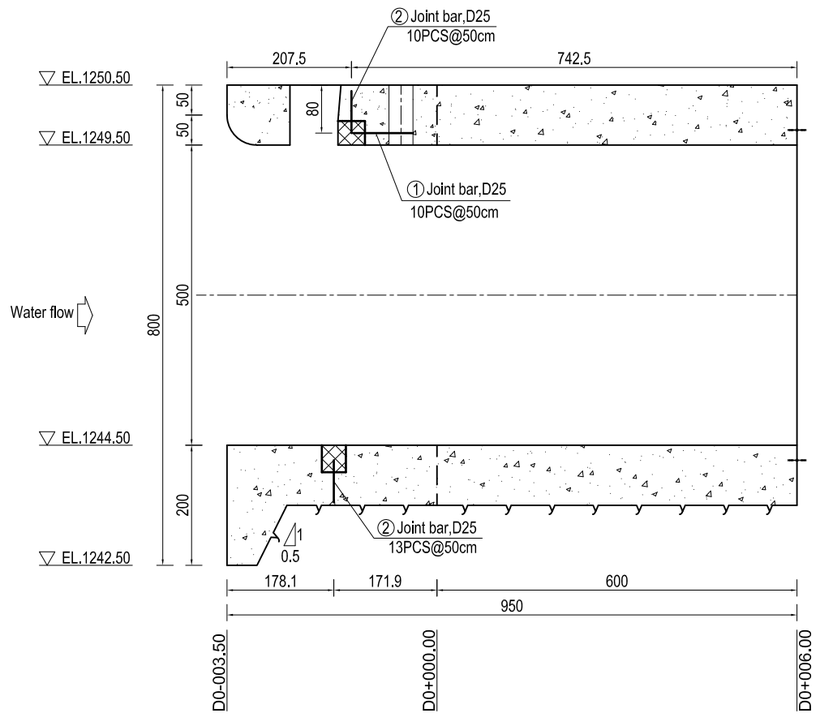
JOINT BAR OF SECTION E-E

scale 1:50



JOINT BAR OF LINTEL AND SILL BEAM

scale 1:50



SECONDARY CONCRETE JOINT BAR

Item	No.	Dia. (mm)	Type (cm)	Each Length (cm)	PCS	Total Length (m)	Remarks
Joint bar	①	D25	80 (1st stage concrete) + 20 (2nd stage concrete)	100	136	136	Spacing As Specfied
	②	D25	50 (1st stage concrete) + 20 (2nd stage concrete)	70	23	16.1	Spacing As Specfied

BOQ

No.	Description	Unit	Qty.	Remark
1	1st stage concrete	m^3	234	
2	2nd stage concrete	m^3	10	
3	-Drilling grout hole for consolidation grouting	m	40	L=4m
	-Consolidation grouting	ton		Actual quantity
4	-Backfill grouting	m^2	50	
5	PVC water stop	m	22	
6	PE foamed plastic plate	m^2	10	

1:50 0 0.5 1 1.5 2 2.5m

NOTE

1. The coordinates, chainages & elevations are measured in meters, all dimensions are in centimeters unless otherwise stated.
2. The other notes please refer to 1/4.

REFERENCE DRAWINGS

UT1-C-010-CVL-DG-42001	Arrangement Drawing of Diversion Tunnel
UT1-H-010-MEC-DG-01004	Diversion Tunnel Stoplog 1st Stage Embedded Parts
UT1-C-010-CVL-DG-42004	Reinforcement Dwg of Inlet Structure of Diversion Tunnel

SYMBOL AND LEGEND

For information

THIS DRAWING AND THE INFORMATION CONTAINED HEREIN ARE PRELIMINARY FOR APPROVAL.
IT CAN BE CHANGED IN THE EXECUTION STAGE
THIS DRAWING IS THE PROPERTY OF DOOSAN HEAVY INDUSTRIES & CONSTRUCTION CO., LTD.
IT IS NOT TO BE COPIED OR USED IN ANY WAY DETRIMENTAL TO THE COMPANY.

REV. NO.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0C	31.MAR,2022	As RN-0094	Shao H.J.	Han Y.H.	Wang C.G. Luo L.
0B	9.MAR,2022	As RN-0060	Shao H.J.	Han Y.H.	Wang C.G. Luo L.
0A	10.FEB,2022	First issue	SHAO H.J.	HAN Y.H.	WANG C.G. LUO L.

PROJECT TITLE

Upper Trishuli-1 HEP (216MW)

OWNER

NWEDC

OWNER'S ENGINEER

TRACTEBEL ENGIE

jade CONSULT

CONTRACTOR

DOOSAN Doosan Heavy Industries & Construction

DRAWING TITLE

Diversion Facilities

Outline of Diversion Tunnel Intake Tower

INDEX	DRAWING NUMBER	SHEET NO.	REV. NO.
A	UT1-C-010-CVL-DG-42008-4	4 OF 4	0C

A1 (594 x 841 MM)